72-62-782 01

MATERIAL SAFETY # 31

Ashland Chemical Company

DIVISION OF ASHLAND DIL, INC. P. O. BOX 2219, COLUMBUS, OHIO 43216 • I6141 889-3333

24-HOUR EMERGENCY TELEPHONE (606) 324-1133

000823 PERCHLOROETHYLENE PAGE: 1 THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD) PRODUCT NAME: PERCHLOROETHYLENE CAS NUMBER: 127 18 4 05 50 006 5821880-001
DATA SHEET NO: D001042-004
LATEST REVISION DATE: 11/85-85317
PRODUCT: 3750000
INVOICE: 506313
INVOICE DATE: D8/07/85
TO: MEDEX, INC.
6250 SHIER RINGS ROAD
DURLIN OH 43017 MEDEX, INC. 3637 LACON ROAD HILLIARD, OH 43026 ATTN: PLANT MGR. / SAFETY DIR. SECTION I-PRODUCT IDENTIFICATION GENERAL OR GENERIC ID: CHLORINATED HYDROCARBON HAZARD CLASSIFICATION: (99) NOT APPLICABLE SECTION II-HAZARDOUS COMPONENTS INGREDIENT N (BY MI) PEL TLV PERCHLOROETHYLENE 100 100 50 PPM (1) (1): NIOSH RECOMMENDS A LIMIT OF 50 PPM - 8 HOUR TIME WEIGHTED AVERAGE. SECTION III-PHYSICAL DATA REFINEMENT PROPERTY 250.00 DEG F DEG C) MMHG INITIAL BOILING POINT FOR PRODUCT 121.11 760.00 13.00 68.00 20.00 MMHG DEG F DEG C) VAPOR PRESSURE FOR PRODUCT 5.7 VAPOR DENSITY AIR = 1 SPECIFIC GRAVITY 1.622 77.00 25.00 PERCENT VOLATILES 100.00% EVAPORATION RATE (N-BUTYL ACETATE = 1) SECTION IV-FIRE AND EXPLOSION DATA NOT APPLICABLE FLASH POINT EXPLOSIVE LIMIT NOT APPLICABLE EXTINGUISHING MEDIA: WATER FOG DECOMPOSITION PRODUCTS: DOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE A Carbon monoxide, hydrogen chloride, phosgene, various hydrocarbons, etc. CARBON DIOXIDE AND SPECIAL FIREFIGHTING PROCEDURES: WATER MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL UNTIL FIRE IS OUT. WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE WHEN FIGHTING FIRES.

CODES: HEALTH- 2 FLAMMABILITY- 0 REACTIVITY- 0 NFPA CODES: SECTION V-HEALTH HAZARD DATA PERMISSIBLE EXPOSURE LEVEL 1 D D PPM THRESHOLD LIMIT VALUE PPM EFFECTS OF OVEREXPOSURE: FOR PRODUCT EYES - CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION.

SKIN - PROLONGED OR REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING,

DERMATITIS.

BREATHING - EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY

IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, POSSIBLE

UNCONSCIOUSNESS, AND EVEN ASPHYXIATION.

SWALLOWING - CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND

DIARRHEA.

FIRST AID:

IF ON SKIN. THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDER CONTAMINATED CLOTHING BEFORE RE-USE.

IF IN EYES: FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER LIDS OCCASIONALLY, GET MEDICAL ATTENTION.

MATERIAL SAFETY
DATA SHEET

Ashland Chemical Company

DIVISION OF ASHLAND OIL, INC.

P. D. BOX 2219, COLUMBUS, OHIO 43216 + (614) 889-3333



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0008	323	PERCHLOROETHYLENE	PAGE: 2	
		V-HEALTH HAZARD DATA (CONTINUED)		
SECTION V-HEALTH HAZARD DATA (CONTINUED) C THE SWALLOWED: DO NOT INDUCE VOMITING. CALL PHYSICIAN OR TRANSPORT TO AN EMERGENCY FACILITY.				
IF E	DIFFICULT, ADMINISTER OXY RESPIRATION: KEEP PERSON	OVE INDIVIDUAL TO FRESH AIR. IF BRE YGEN. IF BREATHING HAS STOPPED GIVE WARM, QUIET AND GET MEDICAL ATTENT EPINEPHRINE OR EPHEDRINE MAY ADVER	T ARTIFICIAL	
	MARY ROUTE(S) OF ENTRY:			
	INHALATION			
	SKIN CONTACT			
	9	BECTION VI-REACTIVITY DATA		
HAZ	ARDOUS POLYMERIZATION: CAN	NOT OCCUR		
STA	BILITY: STABLE			
INC	DMPATIBILITY: NOT APPLICAB	LE		
	SECTI	DN VII-SPILL OR LEAK PROCEDURES		
		ERIAL IS RELEASED OR SPILLED:		
SMAI	L SPILL: ABSORB LIQUID ON ABSORBENT MATERIAL AND T	PAPER, VERMICULITE, FLOOR ABSORBEN Ransfer to hood.	IT, OR OTHER	
LAR	AREA OF SPILL UNTIL CLEAR DIKE AREA OF SPILL TO PRI REMAINING LIQUID MAY BE	ING PROTECTIVE EQUIPMENT SHOULD BE N-UP HAS BEEN COMPLETED. STOP SPILL EVENT SPREADING, PUMP LIQUID TO SAL TAKEN UP ON SAND, CLAY, EARTH, FLOO AND SHOVELED INTO CONTAINERS.	. AT SOURCE, .Vage tank.	
	TE DISPOSAL METHOD:			
SMAI	FOR VAPORS TO COMPLETELY	ORTION TO EVAPORATE IN HOOD. ALLOW Clear Hood Duct Work. Dispose of R Ith applicable regulations.		
LAR		D INCINERATION WITH OFF-GAS SCRUDBE AY BE DEPOSITED IN A LANDFILL IN AC REGULATIONS.		
	SECTION V	XII-PROTECTIVE EQUIPMENT TO BE USED	נ	
RESI	NIOSH/MSHA JOINTLY APPRO OF PROPER ENVIRONMENTAL : NIOSH/MSHA RESPIRATORS U	V OF THE PRODUCT OR ANY COMPONENT I VED AIR SUPPLIED RESPIRATOR IS ADVI CONTROL. OSHA REGULATIONS ALSO PERM NDER SPECIFIED CONDITIONS. (SEE YOU INEERING OR ADMINISTRATIVE CONTROLS POSURE.	ISED IN ABSENCE HIT OTHER JR SAFETY	
VEN-	TILATION: PROVIDE SUFFICIE Ventilation to maintain:	NT MECHANICAL (GENERAL AND/OR LOCAL Exposure below tlv(5).	. EXHAUST)	
PRO	TECTIVE GLOVES: WEAR RESIS	TANT GLOVES SUCH AS:, POLYVINYL ALC	оноц	
EVE		SH GOGGLES IN COMPLIANCE WITH OSHA EGULATIONS ALSO PERMIT OTHER TYPE S IPMENT SUPPLIER)		
отн	ER PROTECTIVE EQUIPMENT: TO IMPERVIOUS CLOTHING AND	D PREVENT REPEATED OR PROLONGED SKI BOOTS.	N CONTACT, WEAR	
	SECTION IX-	SPECIAL PRECAUTIONS OR OTHER COMMEN	ITS	
CON.	TAINERS OF THIS MATERIAL M CONTAINERS RETAIN PRODUC HAZARD PRECAUTIONS GIVEN	AY BE HAZARDOUS WHEN EMPTIED.SINCE T RESIDUES (VAPOR, LIQUID, AND/OR S IN THE DATA SHEET MUST BE OBSERVED	EMPTIED 30LID), ALL 3.	
THE		HAS CONCLUDED FROM THE RESULTS OF IVER CARCINOGEN WHEN GIVEN ORALLY T		
OVEREXPOSURE TO MATERIAL HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS:, LIVER ABNORMALITIES				
OVE	REXPOSURE TO MATERIAL HAS	BEEN SUGGESTED AS A CAUSE OF THE FO ALITIES, KIDNEY DAMAGE, LUNG DAMAGE		
THE	INFORMATION ACCUMULATED H	EREIN IS BELIEVED TO BE ACCURATE BL Originating with ashland or not. Re Vance of Need That the information to their circumstances.		



TECHNICAL DATA

PERCHLOROETHYLENE Industrial Grade

DATE:

May 1979

ASHLAND CHEMICAL COMPANY • DIVISION OF ASHLAND OIL, INC. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333

PERCHLOROETHYLENE, INDUSTRIAL GRADE

	SPECIFICATIONS
Specific Gravity 25°/25°C (D-2111) Specific Gravity 20°/20°C (D-2111) Color, Pt-Co, max (D-2108) Distillation Range, °C (D-1078) Acidity, % by wt, as HCl, max (D-2989) Alkalinity, % by wt, as NaOH, max (D-2989) Nonvolatile Matter, % by wt, max (D-2109) Cloud Point, °C, max	1.617-1.621 1.623-1.627 15 120 122°C 0.0005 0.005 0.0025
SHIPPING DATA:	
Pounds Per Gallon, 25°C Freezing Point, °C Viscosity, cps, 25°C Flash Point Fire Point DOT Label Required	13.55 -22.4 0.84 None None None

NOTICE: All precautionary labels and notices should be read and understood by all supervisory personnel and employees before using. Consult Ashland Chemical Company and OSHA regulations for additional safety and health information. Purchaser is responsible for complying with all applicable federal, state or local laws and regulations covering use of the product. Special attention should be given to consumer applications.

() Indicates ASTM test procedure

CODE: 37500000

C. A. S. No. 127-18-4